



## STRUCTURE OF HAIR SCISSORS

### BACKGROUND OF THE INVENTION

#### Field of the Invention:

This Invention relates to a new structure of hair scissors, particularly it is easy  
5 to combine multiple scissors into a single hair scissors for convenient in hair  
cutting and diverse in hair styling.

#### Description of the Related Art:

In general in the process of hair cutting or hair dressing, the barber or the hair  
stylist has to change more than frequently from the shears, scissors, clippers and  
10 thinners to achieve the hair style the customer wants. The change of hair-cutting  
tool is time consuming. The barber or the hair stylist has to hold two pairs of  
scissor or shears for convenience, but the hair cutting tools the barber or the hair  
stylist holds are not yet combined into one tool, sometime they may render finger  
snapping or injury. In other word, it will take long time for the barber or the hair  
15 stylist becoming skilled in operating two tools in one time. Now a new scissors is  
available as shown in fig. 1, in which a long bolt is employed to unite two pair of  
scissors together. This design achieves the convenience, but it is hard to replace  
when one scissors is damaged or out of work.

The conventional combination designs of hair scissor is single an addition of  
20 process but costing more to the barber or hair stylist to buy and the customer to  
share, definitely it is not economical.

Viewing the weaknesses stated above, the inventor has dedicated his rich professional experience and knowledge for year to improving the combination design and finally come up this "structure of hair scissors" in hopes to provide the barbers and the hair stylists more convenient and smoother operation.

## 5 SUMMARY OF THE INVENTION

The main object of this invention is to provide an improved structure of hair scissors in which two blades are overlapped connected by a bolt and nut assembly for easily and fast connecting a plurality of scissors into an integral form to gain convenience in hair cutting or hairdressing and diverse styles.

10 To achieve the above mentioned object as well as the efficiency, the technology this invention has applied is the bolt and nut assembly which consists of a bolt, a plastic washer, a metal washer, a circlet and a lock nut. In particular the bolt is made of a threaded square shank to link the plastic washer, two blades, metal washer, and circlet and finally locked with the lock nut. The other end of  
15 the bolt is the head with an oval hole on its bottom to receive the threaded square shank which is therefore screwed in the hole and locked therein. The linkage composed of the bolt head and the lock are capable of combine several hairs scissor integrally.

This invention is explained in great detail with the aid of embodiments as  
20 illustrated in the drawing attached.

## **BRIEF DESCRIPTION OF THE DRAWINGS**

Fig. 1 shows the appearance of the prior art of hair scissor.

Fig. 2 shows the schematic diagram of detail disassembly of the hair scissor of this invention.

5 Fig. 3 shows appearance of the hair scissors of this invention.

Fig. 4 shows the disassembly of the hair scissors of this invention.

Fig. 5 shows the assembly of the hair scissors of this invention.

Fig. 6 shows the partial disassembly of the hair scissors of this invention.

Fig. 7 shows the cross section of the hair scissors of this invention.

10 Fig. 8 shows another embodiment of the hair scissors of this invention.

## **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

Referring to Figs. from 2 through 8, the structure of hair scissor provided in this invention to replace the pivot screw 30 which holds two blades 10 and the handles 20 together in the hair scissors 1 with a especially designed bolt and nut assembly 40. The bolt and nut assembly 40 is extendable to hold several hair  
15 scissors together for diverse operation in hair cutting and hairdressing.

As shown in Fig. 2, the bolt and nut assembly 40 contains the bolt 41, the plastic washer 42, and the metal washer 43, the circlet 44 and the lock nut 45. In which the bolt 41 has a treaded square shank 411 and a bolt head 412 with an  
20 oval hole 413 to lock therein the threaded square shank 411.

The plastic washer **42** is in the form of central hollow cone, sleeved on the thread shank **411** of the bolt **41** for purpose of adjusting the tightness of the bolt and nut assembly **40**.

The metal washer **43** has a square hole **431** in the center to align with the square shank **411** of the bolt **41**. The metal washer **43** has a projected rib **432** along the rim of the metal washer **43**.

The circlet **44** has a link hole **441** to receive the square shank **411** with the corrugated surface **442** at one end. When the circlet **44** overlaps on the metal washer **43**, the corrugated surface **442** will catch the projected rib **432** of the metal washer to produce a strong restraint on the bolt rotation. The circlet **44** has a flute **443** on the other end.

The lock nut **45** will receive the bolt **41** with inner threaded hole **451** to lock up the square shank **411**.

In assembling, the plastic washer **42**, the metal washer **43**, the circlet **44** are overlapped on the square shank **411** and locked by the lock nut **45** to form an integral structure of the hair scissors **1** as shown in Fig. 3.

If two sets of hair scissors **1** are connected together as shown in Fig. 4, take off the lock nut **45** of the bolt and nut assembly **40** and insert the square shank **411** of the blade **10** into the oval hole **413** of the bolt head **412**, then turn in and lock the square shank **411** therein. As shown in Figs. from 5 through 7, the circlet

45 will link two overlapped scissors 1. The extended connection of the bolt and nut assembly 40 will combine several sets of hair scissors together as shown in Fig. 8.

5 The hair scissors provided in this invention eliminates much trouble for the barbers and hair stylists in changing the scissors, shears and thinners. The users have the option to make any combination as they want without changing the appearance, structure with high interchangeability and practice.

The improved structure of hair scissors has benefited the practicable effectiveness, justified for a grant of new patent.